

LNP™ THERMOCOMP™ UX06032-GY03025

compound

Polyphthalamide

SABIC Innovative Plastics Europe

Message:

LNP* THERMOCOMP* UX06032-GY03025 is a compound based on Polyphthalamide resin containing Glass Fiber, Flame Retardant. Added features of this material include: Non-Brominated & Non-Chlorinated Flame Retardant, Heat Stabilized. Custom Color Grey.

Also known as: LNP* THERMOCOMP* Compound UX06032-GY03025

Product reorder name: UX06032-GY03025

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Heat Stabilizer		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Appearance	Grey		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.20 to 0.30	%	Internal Method
Water Absorption (23°C, 24 hr)	0.27	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11100	MPa	ISO 527-2/1
Tensile Stress (Break)	110	MPa	ISO 527-2/5
Tensile Strain (Break)	1.7	%	ISO 527-2/5
Flexural Modulus ²	9700	MPa	ISO 178
Flexural Stress	165	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³ (23°C)	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	25	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, Unannealed, 64.0 mm Span	267	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	248	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.3E-5	cm/cm/°C	

Transverse : 23 to 60°C	5.3E-5	cm/cm/°C
Flammability	Nominal Value	Test Method
Flame Rating (0.410 mm)	V-0	UL 94
Injection	Nominal Value	Unit
Drying Temperature	120 to 140	°C
Drying Time	4.0 to 6.0	hr
Rear Temperature	280 to 300	°C
Middle Temperature	290 to 310	°C
Front Temperature	295 to 315	°C
Processing (Melt) Temp	305 to 315	°C
Mold Temperature	130 to 150	°C
Back Pressure	0.200 to 0.300	MPa
Screw Speed	40 to 80	rpm
NOTE		
1.	Tensile Bar	
2.	2.0 mm/min	
3.	80*10*4	
4.	80*10*4	
5.	80*10*4 mm	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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